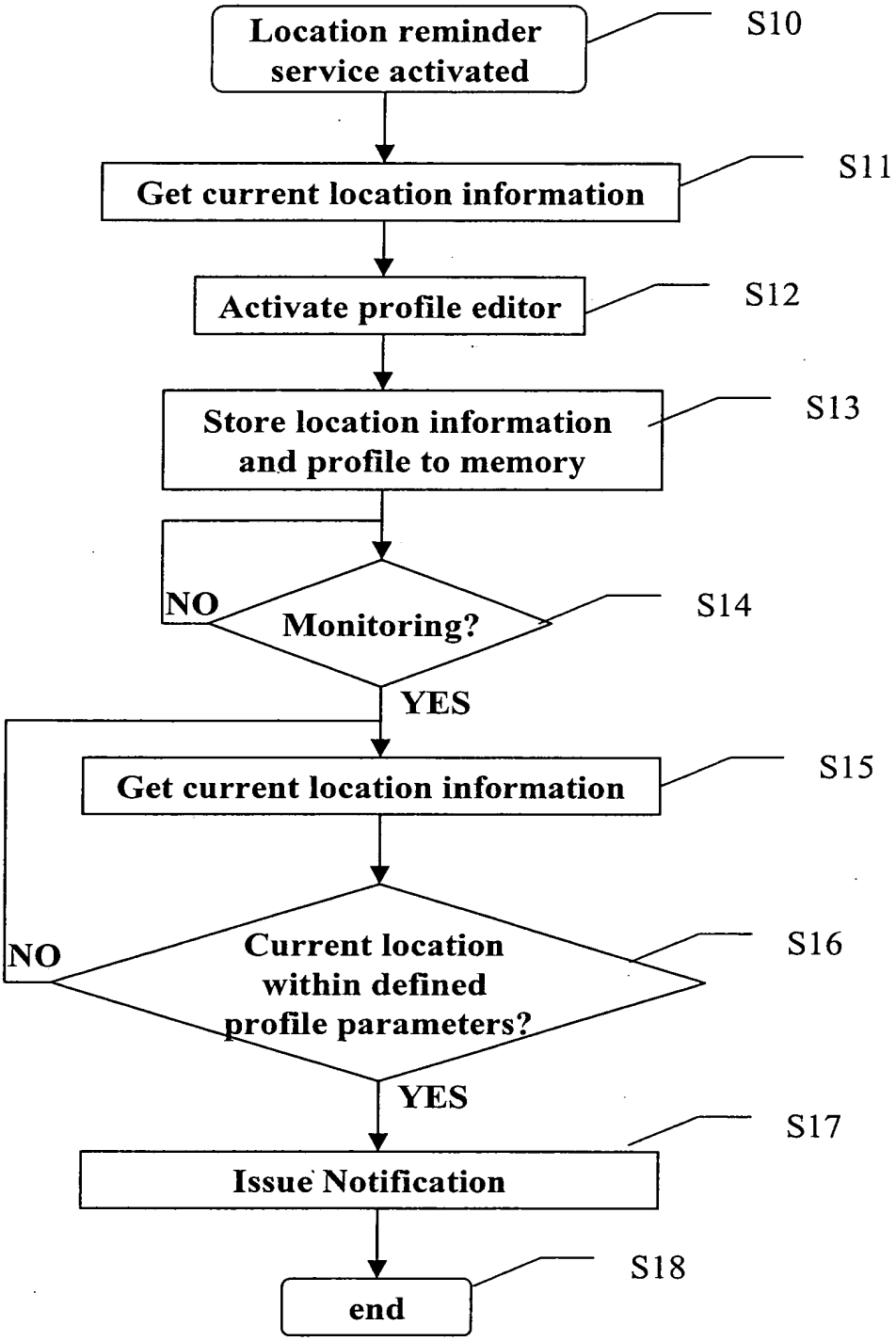

Location reminder service activated
S10
Get current location information
S11
Activate profile editor
S12
Store location information and profile to memory
S13
NO
Monitoring?
S14
YES
Get current location information
S15
NO
Current location within defined profile parameters?
S16
YES
S17
Issue Notification
S18
end

Fig. 1

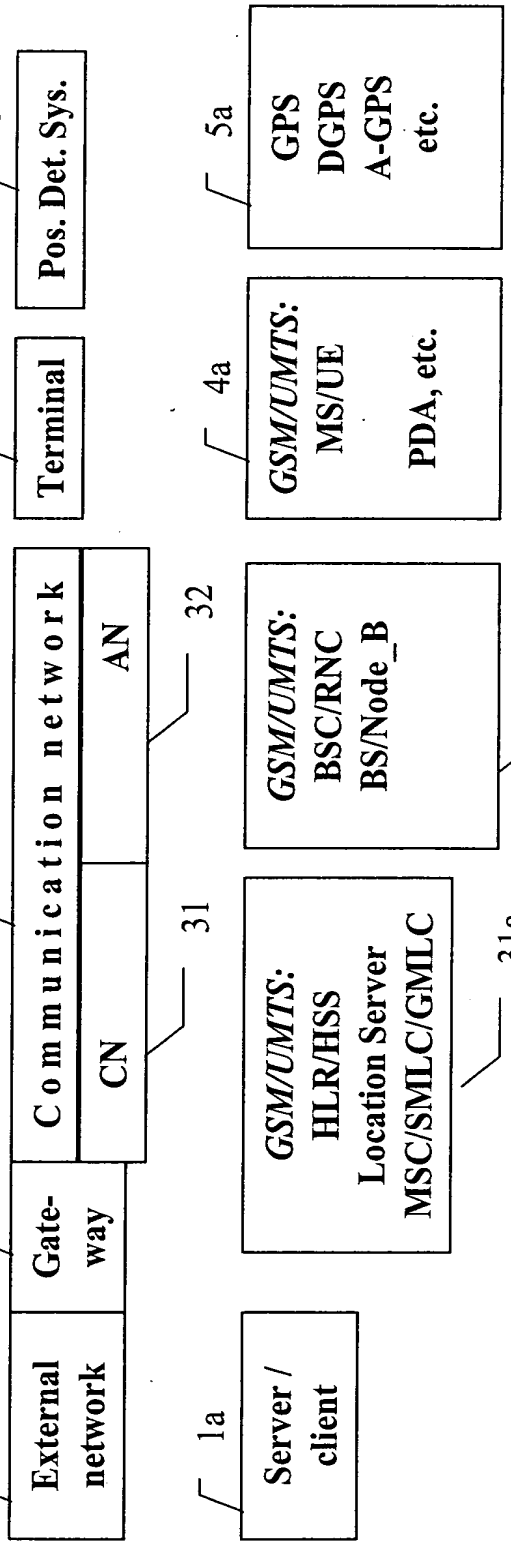

1
External network
2
Gate-way
3
Communication network
CN
AN
31
32
4
Terminal
5
Pos. Det. Sys.
1a
Server / client
GSM/UMTS:
HLR/HSS
Location Server
MSC/SMLC/GMLC
31a
GSM/UMTS:
BSC/RNC
BS/Node_B
32a
4a
GSM/UMTS:
MS/UE
PDA, etc.
5a
GPS
DGPS
A-GPS
etc.

Fig. 2

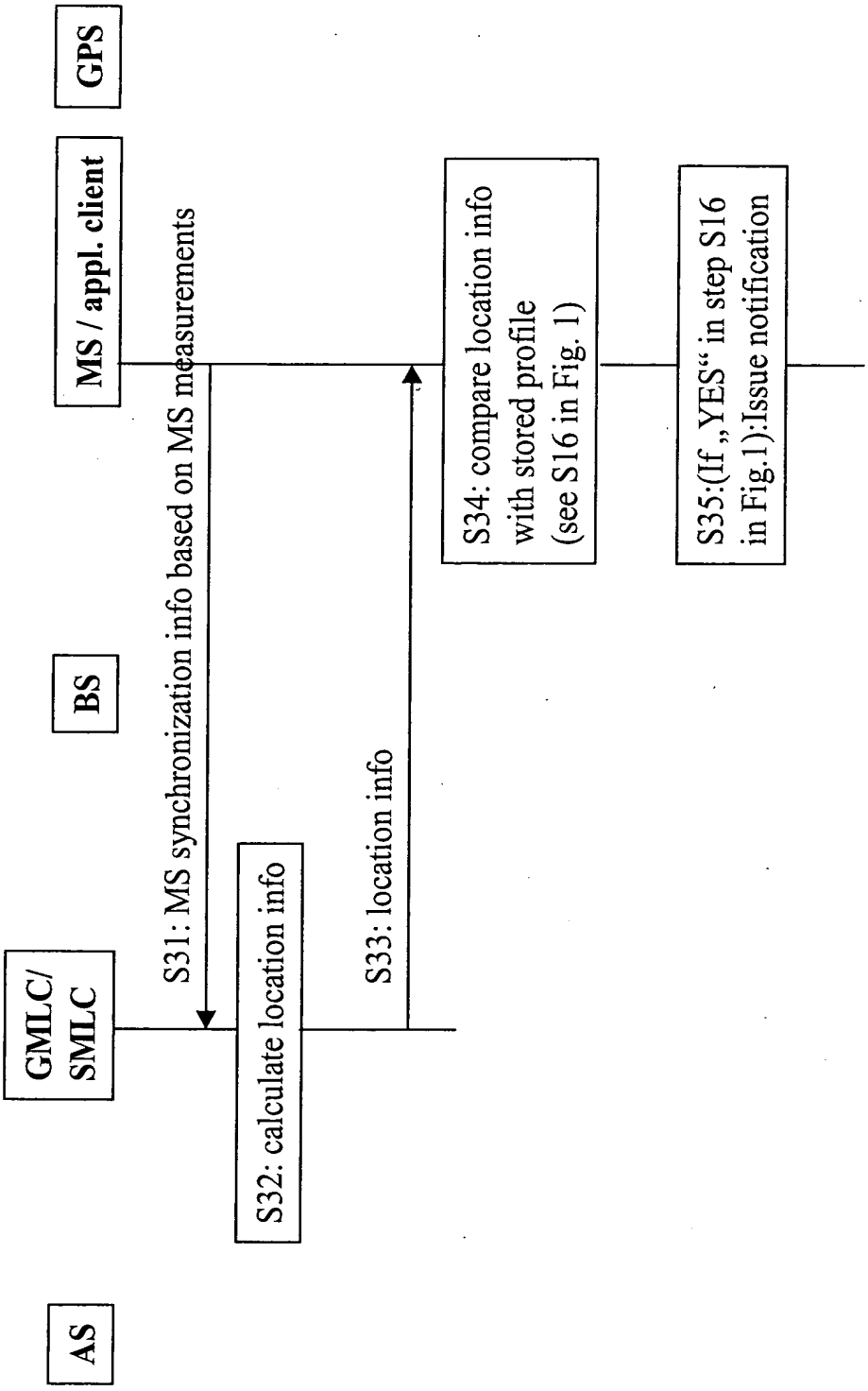

AS
GMLC/ SMLC
BS
MS / appl. client
GPS
S31: MS synchronization info based on MS measurements
S32: calculate location info
S33: location info
S34: compare location info with stored profile (see S16 in Fig. 1)
S35:(If „YES“ in step S16 in Fig.1):Issue notification

Fig. 3

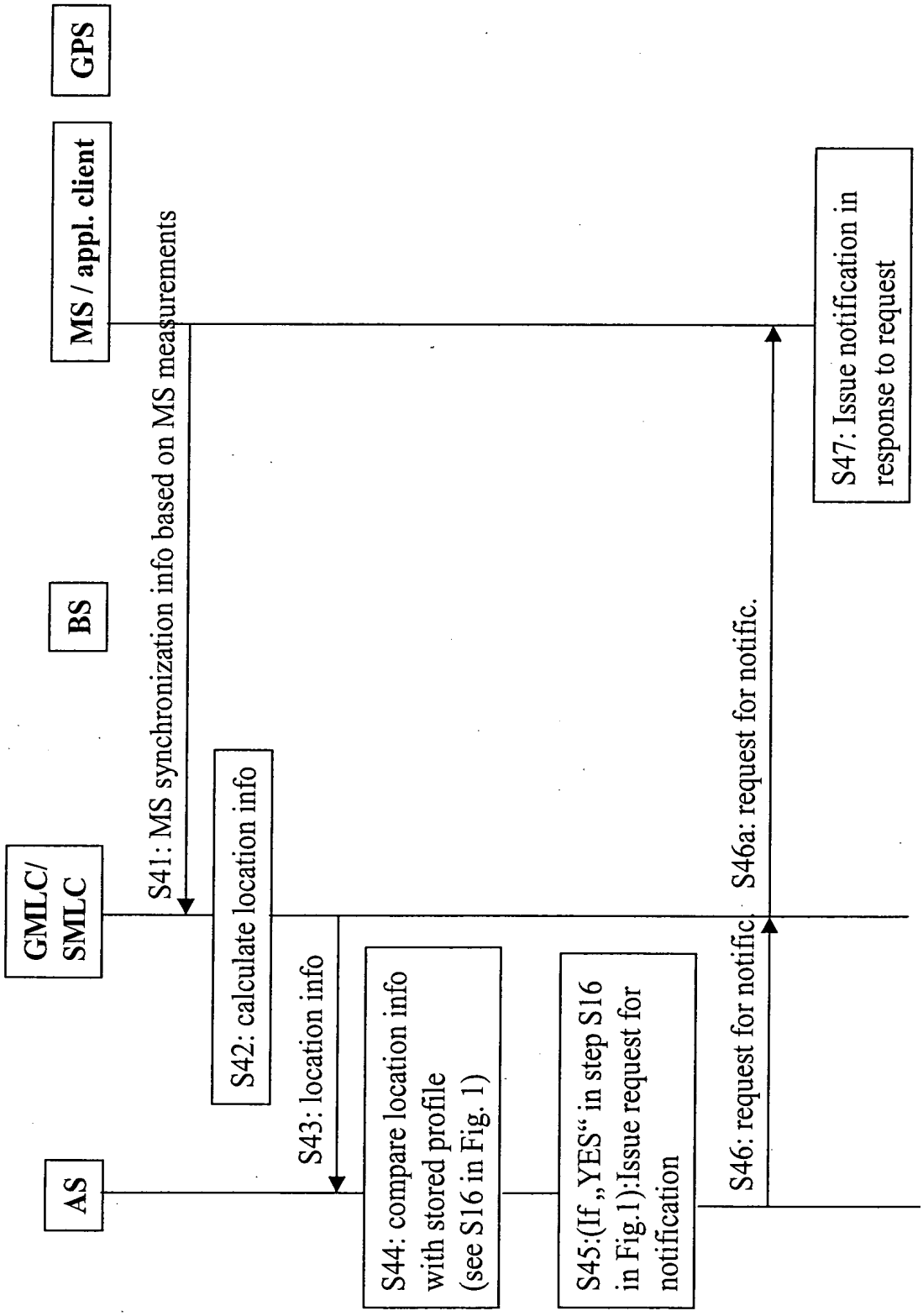

GPS
MS / appl. client
BS
GMLC/ SMLC
AS
S41: MS synchronization info based on MS measurements
S42: calculate location info
S43: location info
S44: compare location info with stored profile (see S16 in Fig. 1)
S45:(If „YES“ in step S16 in Fig.1):Issue request for notification
S46: request for notific.
S46a: request for notific.
S47: Issue notification in response to request

Fig. 4

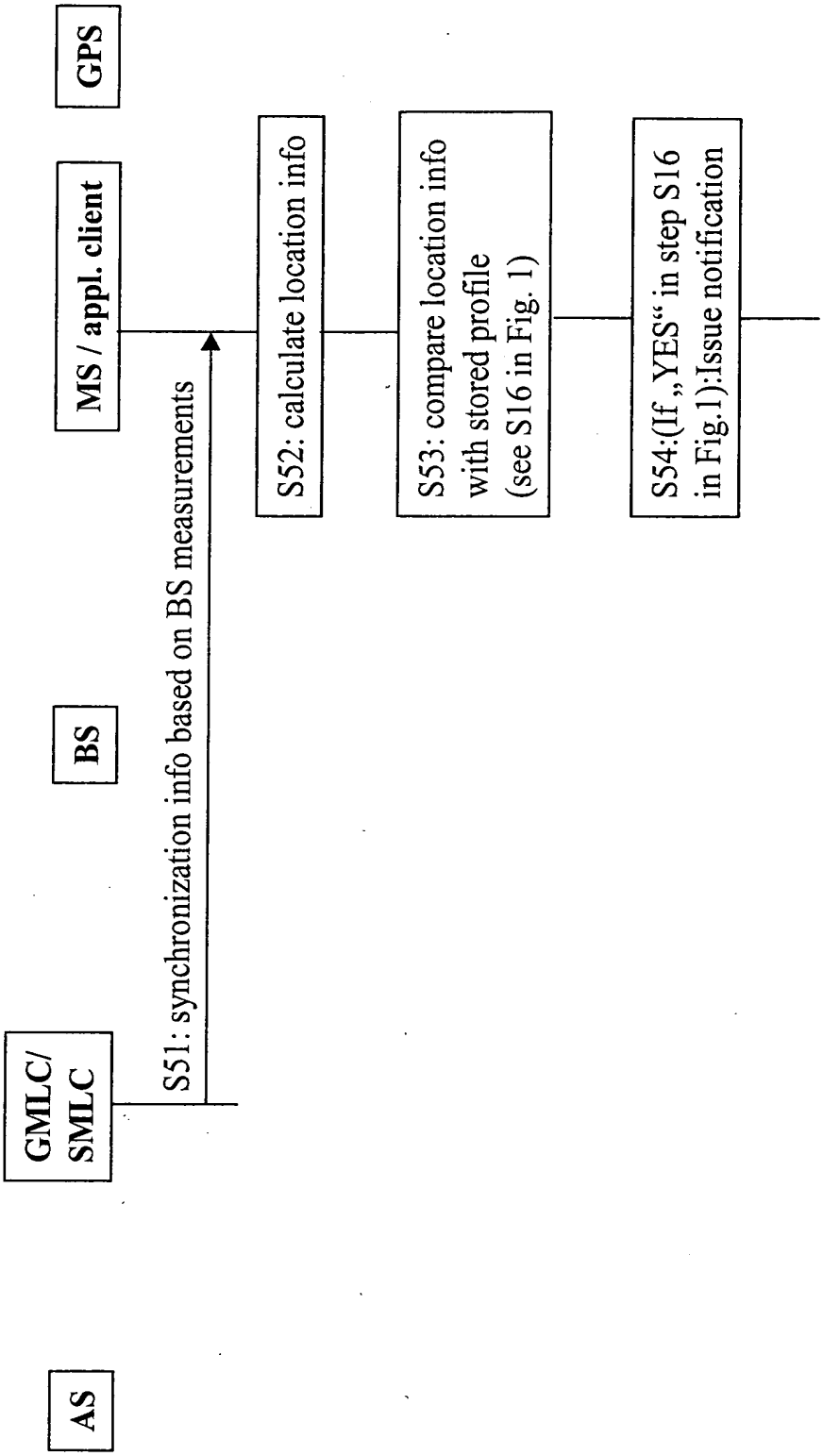

AS
GMLC/ SMLC
BS
MS / appl. client
GPS
S51: synchronization info based on BS measurements
S52: calculate location info
S53: compare location info with stored profile (see S16 in Fig. 1)
S54:(If „YES“ in step S16 in Fig.1):Issue notification

Fig. 5

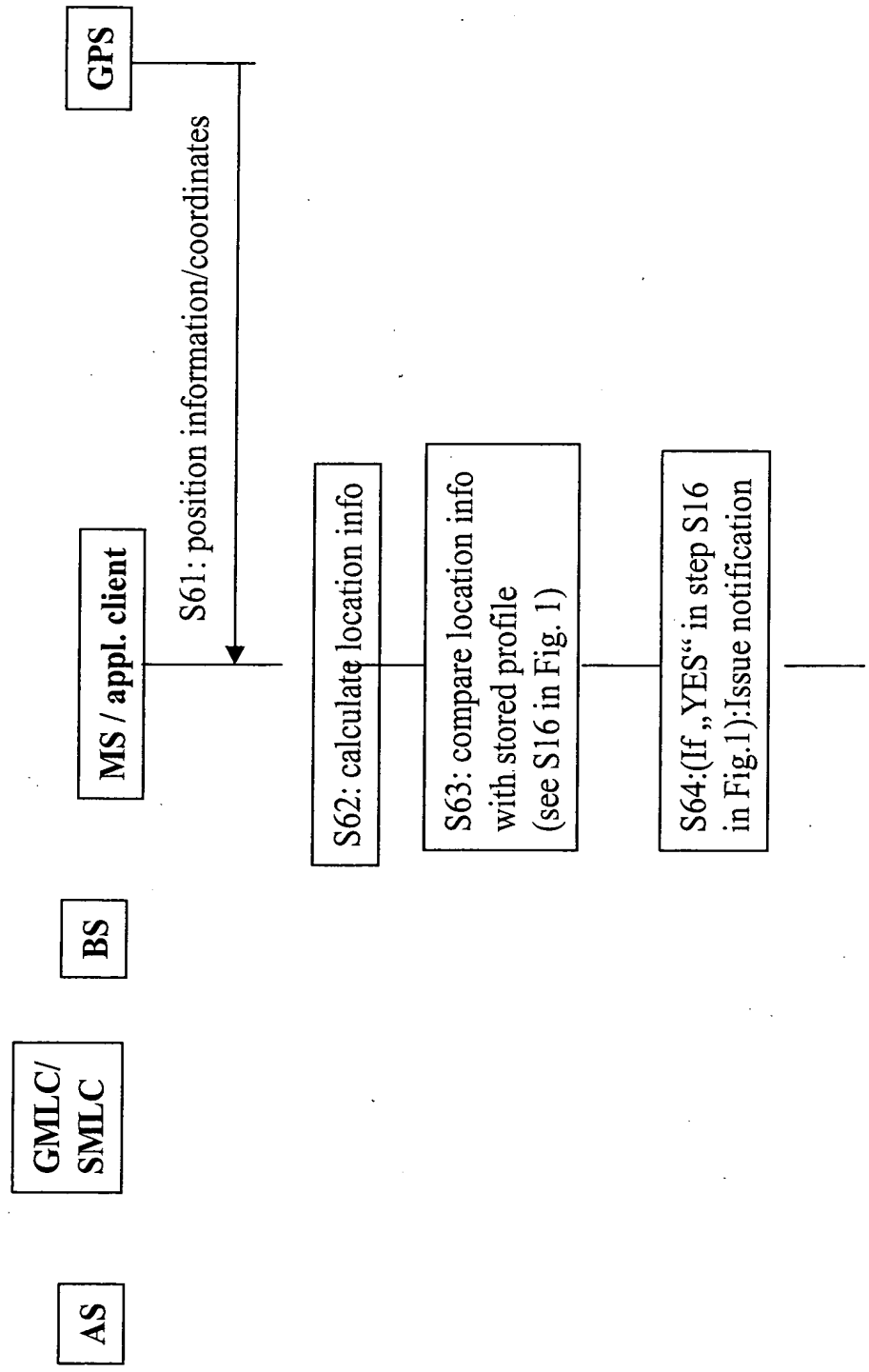

AS
GMLC/ SMLC
BS
MS / appl. client
GPS
S61: position information/coordinates
S62: calculate location info
S63: compare location info with stored profile (see S16 in Fig. 1)
S64:(If „YES“ in step S16 in Fig.1):Issue notification

Fig. 6

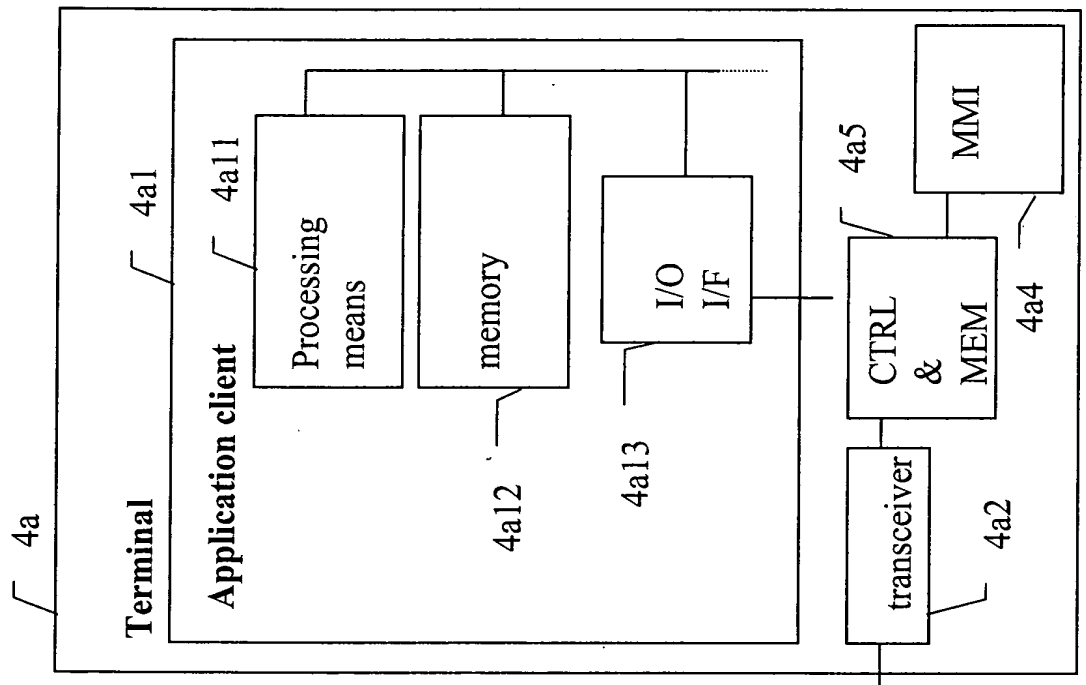


Fig. 7B

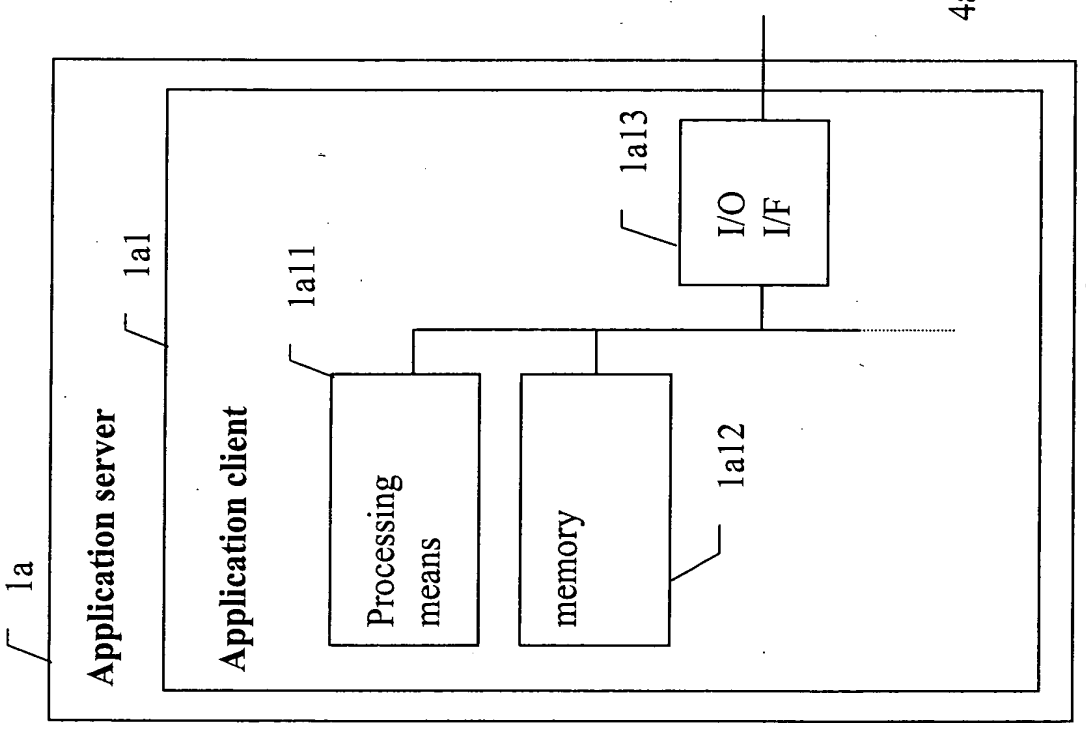
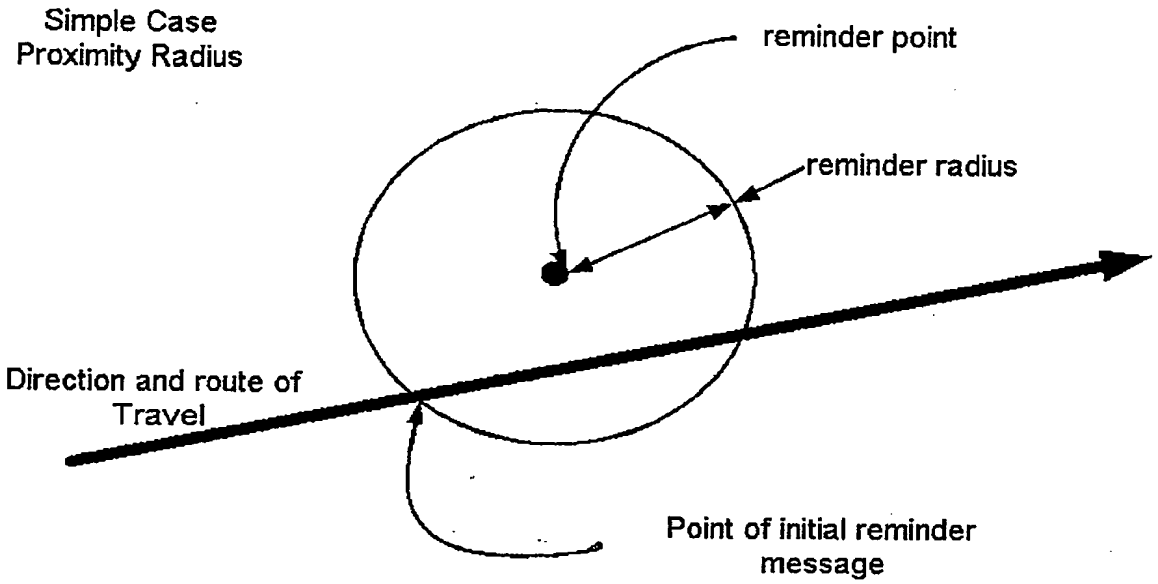


Fig. 7A

Fig. 7

Location Based Reminder Service



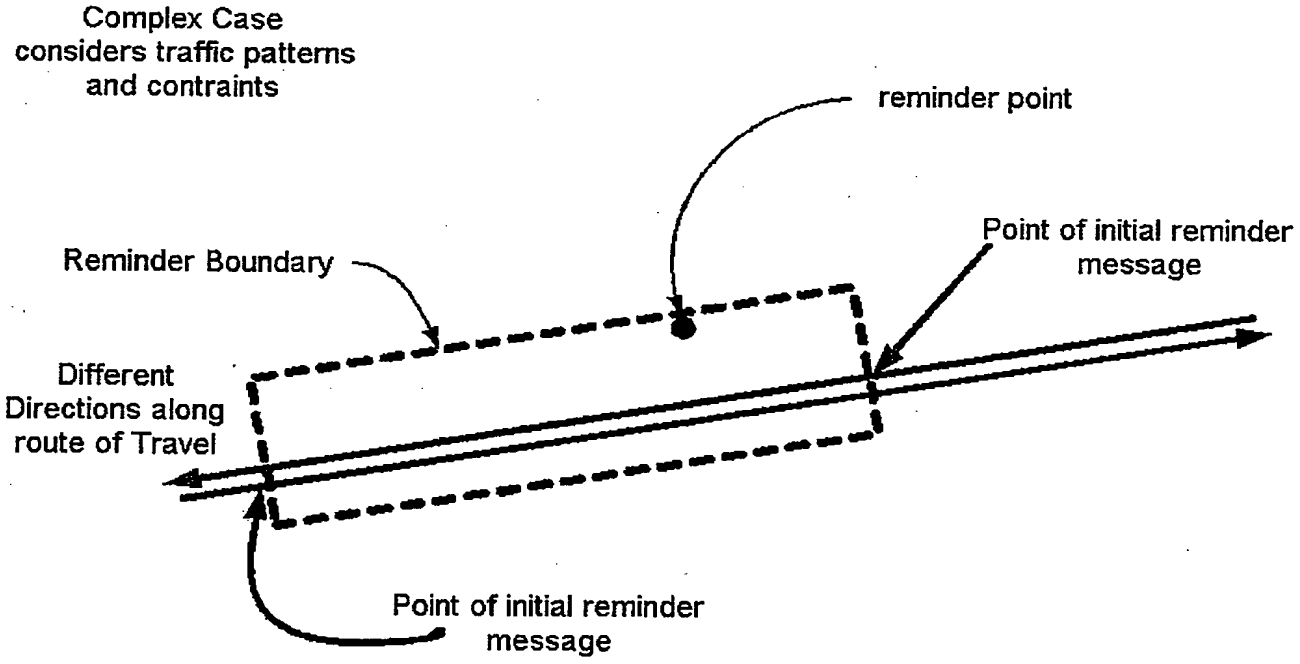


Fig. 8